

Insite Instrumentation Group, Inc.
Water and Wastewater Quality Instrumentation

InsiteIG Portable Meter

Dissolved Oxygen—Suspended Solids—pH—ORP
Smart Sensors—Plug and Play Compatibility

The InsiteIG portable system consists of three parts, the meter, the sensors with cable, and the PortaCaddie that ties the whole system together

The Meter

The InsiteIG Portable Meter is a unique instrument that combines advanced electronics with exceptional functionality and ease of use. The meter will accept any standard portable DO, SS, pH, or ORP sensor and will automatically configure itself for the correct operation. The quick-disconnect, mil-spec connectors allow for quick sensor swaps. The meter includes a 250 point data logger that records sensor type, sensor reading, date, time, and location. The included Portalog software offers several sort options to customize the downloading and reporting of collected data. The rechargeable batteries allow for up to 8 hours of use between charges.



The PortaCaddie

The InsiteIG PortaCaddie is an organizational tool that captures the meter along with the sensor and cable. The PortaCaddie is designed to manage the cable to eliminate tangles while using the system in the field. The meter, sensor, and cable are retained securely during transport and are easily deployed at the



desired test location. The rugged design was built specifically for the rigors encountered by field instrumentation. The PortaCaddie was designed to offer a level of protection to the meter, sensor, and cable.



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InsiteIG Portable Sensors

Dissolved Oxygen PDO

The Portable Dissolved Oxygen sensor incorporates optical fluorescent technology, solid state electronics, and a unique side mount element. The InsiteIG PDO sensor is the only portable optical DO sensor that does not require expensive replacement caps. Nitric Oxide does not interfere with the InsiteIG portable sensor.

- ◆ Measuring Range: 0 to 25 ppm (mg/l)
- ◆ Accuracy: 1% of the reading or .05 ppm, whichever is greater
- ◆ Repeatability: 0.01 ppm
- ◆ Response Time: 95% in under 60 seconds
- ◆ Resolution: 0.01 ppm below 4.00, 0.1 ppm above 4.0
- ◆ Drift: less than 1% per year
- ◆ Temp. Range: 0°C to 60°C



Suspended Solids PSS & PSSL

The Portable Suspended Solids sensors incorporate near infrared technology to provide increased dependability of the reading when color changes in the solids occur. Fast, accurate solids readings. There are two ranges available.

- ◆ Measuring Range:
 - PSS = 250 to 30,000 mg/l
 - PSSL = 0 to 1,500 mg/l
- ◆ Accuracy:
 - PSS = +/- 5% of the reading or +/-100 mg/l, whichever is greater
 - PSSL = +/- 5% of the reading or +/-2 mg/l whichever is greater
- ◆ Repeatability: +/- 1% of the reading or +/- 2 mg/l, whichever is greater
- ◆ Response time: 95% in under 60 seconds



pH PEH51

The Portable Electrode Holder with Model 51 replaceable pH Electrode cartridge comprise the pH sensor, which incorporates embedded electronics, custom geometry, and a field proven cartridge. The embedded electronics in the PEH Holder includes a built-in electrically isolated preamp, which results in reliable digital communications and temperature compensation circuitry. Our flat glass / double reference junction construction yields a field proven cartridge producing long-lasting reliable measurements.

- ◆ Measuring Range: 2 to 12 pH
- ◆ Temp. Range: 10°C to 60°C



ORP PEH52

The Portable Electrode Holder with Model 52 replaceable ORP Electrode cartridge comprise the ORP sensor, which incorporates embedded electronics, custom geometry, and a field proven cartridge. Our flat glass / double reference junction construction, yields a field proven cartridge producing long-lasting reliable measurements. The embedded electronics in the PEH Holder includes a built-in electrically isolated preamp, which results in reliable digital communications and temperature measurement circuitry.

- ◆ Measuring Range: +/- 2000mV
- ◆ Temp. Range: 10°C to 60°C



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